

q1  
automatically determining a routing pattern in the system for the element based on the diagram and the guidelines.

q2  
10. (Amended) A computer-readable medium including instructions for designing a structure for routing a plurality of elements for connecting components, comprising the steps of:  
  
establishing a system design including a plurality of components;  
  
generating a diagram associated with the system design, wherein the diagram includes the plurality of elements and the plurality of components;  
  
accessing guidelines for designing the structure; and  
  
automatically determining routing patterns in the structure for the plurality of elements based on the diagram and the guidelines.

q3  
12. (Amended) The computer-readable medium of claim 10, further including the steps of:  
  
receiving one or more revised guidelines for designing the structure; and  
  
determining a revised routing pattern in the structure for the plurality of elements based on the diagram and the revised guidelines.

q4  
21. (Amended) A system for designing a system including an element, wherein the element connects a plurality of components, the system comprising:  
  
a routing design module configured to perform the following steps,  
  
establishing a system design including the plurality of components;

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